

Title (en)  
METHODS OF AND DEVICES FOR MONITORING THE EFFECTS OF CELLULAR STRESS AND DAMAGE RESULTING FROM RADIATION EXPOSURE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG DER WIRKUNGEN VON ZELLBELASTUNGEN UND -SCHÄDEN ALS ERGEBNIS VON STRAHLUNGS AUSSETZUNGEN

Title (fr)  
PROCÉDÉS ET DISPOSITIFS POUR LE CONTRÔLE DES EFFETS DE STRESS CELLULAIRE ET DE DOMMAGES ENTRAÎNÉS PAR L'EXPOSITION AU RAYONNEMENT

Publication  
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Application  
**EP 10807233 A 20100806**

Priority  

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- US 2010044714 W 20100806

Abstract (en)  

[origin: US2011035158A1] Methods of and devices for detecting a measurable characteristic of the gas sample. The methods and devices are able to detect a value of or a change of measurable characteristic (e.g., such as chemical concentrations), a change of chemical compositions and/or biological responses of a living organism that are induced by a stressor. The biological responses are able to include cellular stress, damage, and immune responses. The stressor is able to include an exposure to ionizing radiation. The effects of the stressors are able to be monitored in terms of changes in the chemical concentrations and chemical compositions in an exhaled breath. The chemicals are able to function as bio-markers. The chemicals that are to be monitored are able to include nitric oxide, carbon monoxide, carbon dioxide, ethane, and other molecules related to specific disease resulting from the stressor.

IPC 8 full level  
**A61B 5/08** (2006.01); **A61B 5/083** (2006.01); **A61B 5/087** (2006.01); **A61B 5/091** (2006.01); **A61N 5/10** (2006.01)

CPC (source: EP US)  
**A61B 5/08** (2013.01 - EP US); **A61B 5/082** (2013.01 - EP US); **A61B 5/0836** (2013.01 - EP US); **A61B 5/087** (2013.01 - EP US); **A61B 5/091** (2013.01 - EP US); **A61B 5/417** (2013.01 - EP US); **A61B 5/4848** (2013.01 - EP US); **G01N 33/497** (2013.01 - EP US); **A61N 5/1031** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP)

Citation (search report)  

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